

ABSTRACT OF THE DISCLOSURE

A constant velocity joint includes an outer joint member, an inner joint member, torque transmitting ball assemblies guided in pairs of tracks, and a cage having windows for receiving 5 the ball assemblies and cage webs defined between the windows. Each ball assembly comprises a slide shaft having lugs at the ends, a roller shaft rotatably and slidably disposed on the slide shaft, and a first and second annular sub-rollers rotatably disposed on the roller shaft. Each of cage webs includes web grooves formed radially at the circumferential faces, engaging the lugs of the slide shaft, thereby allowing a limited radial movement of the ball assembly relative to the cage 10 window, and transmitting any axial force to and from the ball assembly. The ball assemblies reduce the friction loss and wear of constant velocity joints by providing the sub-rollers that roll independently on the inner or outer tracks.